

WEST Search History

DATE: Wednesday, April 09, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set	
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L17	3663615.pn. or 3729508.pn. or 3867433.pn. or 3988358.pn.	10	L17
L16	L15 and nitro	4	L16
L15	L14 and amine	6	L15
L14	4102920.pn. or 4374262.pn. or 4506092.pn. or 4507493.pn. or 4704467.pn. or 5344992.pn.	14	L14
L13	4102920 or 4374262 or 4506092 or 4507493 or 4704467 or 5344992	89	L13
L12	L3 with aryl halide with carbon monoxide	3	L12
L11	l1 with aromatic carboxylic acid ester	7	L11
L10	l1 and aromatic carboxylic acid ester	145	L10
L9	560/20 and l3	3	L9
L8	wo-200061538-\$ did.	1	L8
L7	wo-200061538-\$ did.	0	L7
L6	L5 and carbon monoxide	3	L6
L5	L3 with aryl halide	3	L5
L4	L3 with nitro\$7 aryl halide	0	L4
L3	L1 with aromatic carboxylic acids	453	L3
L2	L1 and aromatic carboxylic acids	4529	L2
L1	nitro or thioether	169590	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 4 of 4 returned.

 1. Document ID: US 4704467 A

L16: Entry 1 of 4

File: USPT

Nov 3, 1987

US-PAT-NO: 4704467

DOCUMENT-IDENTIFIER: US 4704467 A

TITLE: Method for preparation of mercaptobenzoates

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn Desc](#) [Image](#) 2. Document ID: US 4507493 A

L16: Entry 2 of 4

File: USPT

Mar 26, 1985

US-PAT-NO: 4507493

DOCUMENT-IDENTIFIER: US 4507493 A

TITLE: Carbonylation process for the production of aromatic acids and derivatives thereof

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn Desc](#) [Image](#) 3. Document ID: US 4506092 A

L16: Entry 3 of 4

File: USPT

Mar 19, 1985

US-PAT-NO: 4506092

DOCUMENT-IDENTIFIER: US 4506092 A

TITLE: Carbonylation process for the production of aromatic acids and derivatives thereof

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn Desc](#) [Image](#) 4. Document ID: US 4374262 A

L16: Entry 4 of 4

File: USPT

Feb 15, 1983

US-PAT-NO: 4374262

DOCUMENT-IDENTIFIER: US 4374262 A

TITLE: Preparation of hydroxy aromatic carboxylic acids and ester derivatives thereof

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn Desc](#) [Image](#)

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Search Results - Record(s) 1 through 3 of 3 returned.

 1. Document ID: US 20020040159 A1

L9: Entry 1 of 3

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040159

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020040159 A1

TITLE: Preparation of substituted aromatic carboxylic acid esters

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Boaz, Neil W.	Kingsport	TN	US	
Coleman, M. Todd	Batesville	AR	US	
Hightower, Timothy R.	Batesville	AR	US	

US-CL-CURRENT: 560/20[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#) 2. Document ID: US 6337418 B1

L9: Entry 2 of 3

File: USPT

Jan 8, 2002

US-PAT-NO: 6337418

DOCUMENT-IDENTIFIER: US 6337418 B1

** See image for Certificate of Correction **

TITLE: Preparation of C1-C5 alkyl esters of nitro or thioether substituted aromatic carboxylic acids[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#) 3. Document ID: US 4237322 A

L9: Entry 3 of 3

File: USPT

Dec 2, 1980

US-PAT-NO: 4237322

DOCUMENT-IDENTIFIER: US 4237322 A

TITLE: Process for preparation of 1,5-dimethylbicyclo[3.2.1]octan-8-ol

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#)

WEST Search History

DATE: Wednesday, April 09, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L12	L3 with aryl halide with carbon monoxide	3	L12
L11	l1 with aromatic carboxylic acid ester	7	L11
L10	l1 and aromatic carboxylic acid ester	145	L10
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L8	wo-200061538-\$ did.	1	L8
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L1	nitro or thioether	169590	L1

END OF SEARCH HISTORY

FILE ORDERING
order patent files**P**Wednesday
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WFO1003P**Employee Number** **Delivery Location** **Serial Number** **Patent Number** **Add to List****Interference Number** **Remove Items****Request Note** **Order List**

09288642 Serial Number

**Place Order**

PALM INTRANET

Day : Wednesday
Date: 4/9/2003
Time: 14:12:21

Inventor Name Search Result

Your Search was:

Last Name = HIGHTOWER

First Name = TIMOTHY

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10004413	Not Issued	030	12/06/2001	PREPARATION OF SUBSTITUTED AROMATIC CARBOXYLIC ACID ESTERS	HIGHTOWER, TIMOTHY R.

Inventor Search Completed: No Records to Display.

Search Another: Inventor	Last Name <input type="text" value="hightower"/>	First Name <input type="text" value="timothy"/>
		<input type="button" value="Search"/>

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Day : Wednesday
 Date: 4/9/2003
 Time: 14:11:04

PALM INTRANET

Inventor Name Search Result

Your Search was:

Last Name = BOAZ

First Name = NEIL

Application#	Patent#	Status	Date Filed	Title	Inv Na
60264411	Not Issued	020	01/26/2001	PHOSPHINO-AMINOPHOSPHINES	BC NE W
60236564	Not Issued	020	09/29/2000	PHOSPHINO-AMINOPHOSPHINES	BC NE W
60236544	Not Issued	020	09/29/2000	PROCESS FOR THE PREPARATION OF ENANTIOMERICALLY-ENRICHED CYCLOPROPYLALANINE DERIVATIVES	BC NE W
60222317	Not Issued	020	08/01/2000	PROCESS FOR THE PREPARATION OF ALKYL 1-METHYLCYCLOPROPANECARBOXYLATE	BC NE
60133686	Not Issued	159	05/10/1999	POLY(3-CYCLOPROPYL-3-HYDROXYPROPIONATE) AND PROCESSES FOR ITS PREPARATION AND DERIVATIVES THEREOF	BC NE W
60087338	Not Issued	159	05/29/1998	PROCESS FOR THE PREPARATION OF ACETYLENES	BC NE
60048758	Not Issued	159	06/03/1997	PROCESS FOR THE PREPARATION OF THIOETHER-SUBSTITUTED AROMATIC KETONES	BC NE
60048398	Not Issued	159	06/03/1997	PROCESS FOR THE PREPARATION OF 1,3-DICARBONYL COMPOUNDS	BC NE
10105516	Not Issued	030	03/25/2002	PHOSPHINOMETALLOCENYLAMIDES AS NOVEL LIGANDS FOR ASYMMETRIC CATALYSIS	BC NE W
10004413	Not Issued	030	12/06/2001	PREPARATION OF SUBSTITUTED AROMATIC CARBOXYLIC ACID ESTERS	BC NE
09957549	Not Issued	041	09/20/2001	PROCESS FOR THE PREPARATION OF ENANTIOMERICALLY-ENRICHED CYCLOPROPYLALANINE DERIVATES	BC NE W
09957380	Not Issued	093	09/20/2001	PHOSPHINO-AMINOPHOSPHINES	BC NE W
09957182	Not Issued	041	09/20/2001	HIGHLY ENANTIOMERICALLY PURE LACTAM-SUBSTITUTED PROPAVIC ACID	BC NE

				DERIVATIVES AND METHODS OF MAKING AND USING SAME	W ₁
09897872	6552217	150	07/02/2001	PROCESS FOR THE PREPARATION OF ALKYL 1-METHYLCYCLOPROPANE CARBOXYLATE	BC NE W ₁
09693687	6362343	150	10/23/2000	PROCESS FOR HALOHYDRIN PREPARATION	BC NE
09546817	Not Issued	041	04/11/2000	POLY(3-CYCLOPROPYL-3-HYDROXYPROPIONATE) AND PROCESSES FOR ITS PREPARATION AND DERIVATIVES THEREOF	BC NE W ₁
09369300	6096929	150	08/06/1999	PROCESS FOR THE PREPARATION OF THIOETHER-SUBSTITUTED AROMATIC KETONES	BC NE
09344370	6210956	150	06/25/1999	OPTICALLY ACTIVE CIS-1,3-CYCLOHEXANEDICARBOXYLIC ACID MONOESTERS WITH HIGH ENANTIOMERIC PURITY AND PROCESS FOR THEIR PREPARATION	BC NE
09321607	Not Issued	161	05/28/1999	PROCESS FOR THE PREPARATION OF ACETYLENES	BC NE
09290205	6162924	150	04/09/1999	AN IMPROVED PROCESS FOR HALOHYDRIN PREPARATION	BC NE
09288642	6337418	150	04/09/1999	PREPARATION OF C1-C5 ALKYL ESTERS OF NITRO OR THIOETHER SUBSTITUTED AROMATIC CARBOXYLIC ACIDS	BC NE
09088778	6100431	150	06/02/1998	PROCESS FOR THE PREPARATION OF THIOETHER-SUBSTITUTED AROMATIC KETONES	BC NE
09088775	6143935	150	06/02/1998	PROCESS FOR THE PREPARATION OF 1,3-DICARBONYL COMPOUNDS	BC NE
09060959	6028213	150	04/16/1998	OPTICALLY ACTIVE CIS-1,3-CYCLOHEXANEDICARBOXYLIC ACID MONOESTERS WITH HIGH ENANTIOMERIC PURITY AND PROCESS FOR THEIR PREPARATION	BC NE
08839477	5886214	150	04/14/1997	PROCESS FOR THE PRODUCTION OF CHIRAL UNSATURATED ALCOHOLS IN HIGH OPTICAL PURITY	BC NE W ₁
08837134	5777164	150	04/14/1997	PROCESS FOR THE PREPARATION OF HIGH PURITY 0-SUBSTITUTED HYDROXYLAMINE DERIVATIVES	BC NE W ₁
08803297	5874432	250	02/20/1997	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
08449152	5596012	150	05/24/1995	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
08445118	5597841	150	05/19/1995	NOVEL 2-SACCHARINYL METHYL ARYL CARBOXYLATES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND	BC NE

METHOD OF USE THEREOF					
08270964	5650422	150	07/05/1994	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
08223483	Not Issued	161	04/04/1994	ADDITIVE ASSISTED ENZYMATIC ESTERIFICATION OF 1,2-DIOL MONOSULFONATES	BC NE
08116416	5512589	150	09/03/1993	NOVEL 2-SACCHARINYL METHYL ARYL CARBOXYLATES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
08114808	5312950	150	08/31/1993	METHOD FOR PURIFICATION OF ALCOHOLS	BC NE
08067637	5371074	250	05/24/1993	USE OF SACCHARIN DERIVATIVES AS PROTEOLYTIC ENZYME INHIBITORS	BC NE
07999240	5250743	150	12/31/1992	METHOD OF INTERCONVERSION OF ENANTIOMERS OF ACYCLIC 1,2-DIHYDROXY-3-ALKENES	BC NE
07854944	5306638	150	03/20/1992	AMINE ADDITIVE ASSISTED ENZYMATIC ESTERIFICATION OF 1,2-DIOL MONOSULFO NATES	BC NE
07793033	5236917	150	11/15/1991	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
07782016	5128339	150	10/24/1991	PROTEOLYTIC ENZYME INHIBITION METHOD	BC NE
07660839	5126268	150	02/26/1991	ALCOHOL-ESTER SPARATION BY REACTION WITH ACETATE	BC NE
07660838	Not Issued	161	02/26/1991	ALCOHOL-ESTER SEPARATION BY REACTION WITH BICARBONATE IN POLYHYDROXY SOLVENT	BC NE
07660837	5126267	150	02/26/1991	PROTECTED HYDROXY METHOD FOR ALCOHOL-ESTER SEPARATION	BC NE
07660830	5445963	150	02/26/1991	ALCOHOL-ESTER SEPARATION BY RECRYSTALLIZATION	BC NE
07608068	Not Issued	161	11/01/1990	NOVEL 2-SACCHARINYL METHYL ARYL CARBOXYLATES USEFUL AS PROTEOLYTIC ENZYME INHIBITORS AND COMPOSITIONS AND METHOD OF USE THEREOF	BC NE
07514920	Not Issued	168	04/26/1990	NOVEL SACCHARIN DERIVATIVES USEFUL AS PROTEOLYTIC EXZYME INHIBITORS AND COMPOSITINS AND METHOD OF USE THEREOF	BC NE
07501570	Not Issued	168	03/30/1990	METHOD FOR THE PREPARATION OF OPTICALLY ACTIVE ALPHA, BETA-UNSATURATED EPOXIDES	BC NE
07412260	4921798	150	09/25/1989	SYNTHESIS OF(ARYL OR ARYLALKYL)-3-HYDROXYPROPIONIC ACIDS AND ARYL ALKANEDIOLS HAVING HIGH OPTICAL	BC NE

PURITY				
<u>07347126</u>	Not Issued	168	05/04/1989	NOVEL SACCHARIN DERIVATIVES
<u>07347125</u>	Not Issued	168	05/04/1989	INHIBITION OF SERINE PROTEASES IN THE TREATMENT OF DEGENERATIVE DISORDERS
<u>07290557</u>	Not Issued	161	12/27/1988	ENANTIOSELECTIVE ENZYMATIC ESTERIFICATION OF FERROCENYL ALCOHOLS
<u>07117585</u>	Not Issued	161	11/06/1987	AMINO-SUBSTITUTED PYRYLIUM DYES AND USES THEREOF

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Search Another:
Inventor

Last Name

boaz

First Name

neil

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Day : Wednesday
Date: 4/9/2003
Time: 14:11:36

PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = COLEMAN

First Name = M. TODD

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09288642	6337418	150	04/09/1999	PREPARATION OF C1-C5 ALKYL ESTERS OF NITRO OR THIOETHER SUBSTITUTED AROMATIC CARBOXYLIC ACIDS	COLEMAN , M. TODD
09088775	6143935	150	06/02/1998	PROCESS FOR THE PREPARATION OF 1,3-DICARBONYL COMPOUNDS	COLEMAN , M. TODD

Inventor Search Completed: No Records to Display.

Search Another: Inventor	Last Name <input type="text" value="coleman"/>	First Name <input type="text" value="m. todd"/>
		<input type="button" value="Search"/>

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=> d T4 1-2 ibib abs hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:742054 CAPLUS

DOCUMENT NUMBER: 133:309757

TITLE:

Preparation of **nitro-substituted**
aromatic carboxylic acid esters from **nitro-**
substituted aryl halides, carbon monoxide, and
an alcohol.

INVENTOR(S): Boaz, Neil W.; Coleman, M. Todd; Hightower, Timothy R.

PATENT ASSIGNEE(S): Eastman Chemical Company, USA

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIIXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061538	A1	20001019	WO 2000-US6645	20000315
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6337418	B1	20020108	US 1999-288642	19990409
EP 1169295	A1	20020109	EP 2000-916323	20000315
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002040159	A1	20020404	US 2001-4413	20011206

PRIORITY APPLN. INFO.: CASREACT 133:309757; MARPAT 133:309757
US 1999-288642 A 19990409
WO 2000-US6645 W 20000315

OTHER SOURCE(S): CASREACT 133:309757; MARPAT 133:309757

AB **Nitro-substituted** arom. carboxylic acid esters were
prepd. by reaction of **nitro-substituted** aryl halides
with CO and an alc. in the presence of a metal catalyst and a proton
acceptor in the absence of H₂O and O₂. Thus,
dichlorobis(triphenylphosphine)palladium, 4-bromo-3-nitrobenzotrifluoride,
and Et₃N in MeOH were heated at 60.degree. under 1 atm. CO to give 98% Me
2-nitro-4-trifluoromethylbenzoate. The latter was converted to
1-(2-methylthio-4-trifluoromethylphenyl)-3-cyclopropyl-1,3-propanedione.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:535238 CAPLUS

DOCUMENT NUMBER: 115:135238

TITLE:

Nucleophilic substitution of nitro aromatic halides by
electrogenerated polysulfide ions in dimethylacetamide
Benaichouche, Meriem; Bosser, Gerard; Paris, Jacky;
Plichon, Vincent

CORPORATE SOURCE: Lab. Synth. Etud. Phys.-Chim. Org., UFR Sci., Tours,
37200, Fr.

SOURCE: Journal of the Chemical Society, Perkin Transactions
2: Physical Organic Chemistry (1972-1999) (1991),
(6), 817-23

CODEN: JCPKBH; ISSN: 0300-9580

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Electrogenerated polysulfide ions S₃.bul.- and S₈.bul.- readily react with
halo aroms., RX, activated by nitro electron-withdrawing substituents in
dimethylacetamide. Nucleophilic substitutions on fluoro-2,4-
dinitrobenzene and halo-2- or 4-nitrobenzenes (X = F, Cl, Br, I) lead to

the colored aryl sulfid[REDACTED] = S-) and aryl disulfide (X[REDACTED] = S²⁻) ions. From the reaction kinetics studied by UV-Vis spectrophotometry, the order of reactivity is RF > RBr, RI > RC1. The proposed S_NAr mechanism implies that the dianions S₆2⁻ and S₈2⁻ are the nucleophilic agents (S₆2⁻ .mchgt. S₈2⁻) rather than the S₃.bul.- radical anions.

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(FILE 'HOME' ENTERED AT 14:16:34 ON 09 APR 2003)

FILE 'CAPLUS' ENTERED AT 14:16:45 ON 09 APR 2003

L1 0 S NITRO? AROMATIC CARBOXYLIC ESTER
L2 0 S NITRO? AND AROMATIC CARBOXYLIC ESTER
L3 0 S NITRO-SUBSTITUTED AND AROMATIC CARBOXYLIC ESTER
L4 2 S NITRO-SUBSTITUTED AND ARYL HALIDE
L5 0 S 1-2 IBIB ABS HITSTR